11-5965-267-15P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, FIELD AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LISTS HEADSET, ELECTRICAL H-16/U

Headquarters, Department of the Army, Washington 25, D. C.
20 August 1962

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SECTION I

INTRODUCTION

1. Scope

a. This manual includes an operator, organizational, field special tools list.

(1) The operator's maintenance repair parts and special tools list lists items supplied for initial operation and for running spares. The list includes parts and material issued as *part of* the major end item. All items authorized for basic operator maintenance of the equipment are also listed.

(2) The organizational maintenance repair parts and special tools list lists the quantities of repair parts authorized for organizational maintenance and is a basis for requisitioning by organizations which are authorized the major item of equip-

* This manual supersedes Department of the Army Supply Manual SIG 7 & 8 H-16/U, 4 June 1957.

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ment. End items of equipments are issued on the basis of allowances prescribed in equipment authorization tables and other documents that are a basis for requisitioning.

(3) The field and depot maintenance repair parts and special tools list lists the quantities of repair parts authorized for third echelon field maintenance and is a basis for requisitioning authorized parts.

(4) The maintenance allocation chart assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

b. Columns are as follows:

(1) *Source, maintenance, and recoverability code.* Source, maintenance, and recoverability codes indicate the technical service responsible for supply, the echelons where an item is stocked, echelons where an item is installed or repaired, and whether an item is repairable or salvageable. The source code column is divided into four parts.

(a) Column A. This column indicates the technical service responsible for supply. AR 310–2 defines the basic numbers used to identify the technical services. If the part is supplied by the Signal Corps, the column is blank.

(b) Column B. This column indicates the point within the maintenance system where the part is available. "P" indicates that the repair part is a high mortality part; procured by technical services, stocked in and supplied from the technical service depot system, and authorized for use at indicated maintenance echelons.

(c) Column C. This column indicates the lowest maintenance echelon authorized to install the part.

"O"—Organizational maintenance (1st and 2d echelon).

"F"—Field maintenance (3d echelon).

(d) Column D. Not used.

(2) *Federal stock number.* This column lists the 11-digit Federal stock number.

(3) *Designation by model.* Not used.

(4) *Description.* Nomenclature or the standard item name and brief identifying data for each item are listed in this column. When requisitioning, enter the nomenclature and description.

(5) *Unit of issue.* The unit of issue is each unless otherwise indicated and is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.

(6) *Expendability.* Nonexpendable items are indicated by NX. Expendable items are not annotated.

(7) *Quantity authorized.* Under "Items Comprising an Operable Equipment," the column lists the quantity of items supplied for the initial operation of the equipment. Under "Running Spares Items," the quantities listed are those issued initially with the equipment as spare parts. The quantities are authorized to be kept on hand by the operator for maintenance of the equipment.

(8) *Quantity incorporated in unit.* This column lists the quantity of each part found in a given assembly, component, or equipment.

(9) *Organizational.* The quantities indicated in this column are maximum levels of repair parts authorized to be kept on hand by units performing organizational maintenance. The quantities are based on 100 equipments to be maintained for a 15-day period.

(10) *Field (third echelon).* This column indicates quantities of repair parts authorized for initial stockage for use in the third echelon maintenance and in supply support to second echelon. The quantities are based on 100 equipments to be maintained for a 15-day period.

(11) *Field (fourth echelon).* No parts authorized for stockage.

(12) *Depot (fifth echelon).* No parts authorized for stockage.

(13) *Illustrations.* Not used.

2. Parts for Maintenance

When this equipment is used by signal service organizations organic to the theater headquarters

or communication zones to provide theater communicatins, those repair parts authorized up to and including fourth echelon are authorized for stockage by the organization operating this equipment.

3. Additional Repair Parts Authorization

An asterisk (*) in the column titled "15 Day Maintenance Allowance per 100 Equipments" indicates that an item is not authorized for stockage but if required, may be requisitioned for immediate use only.

4. Requisitioning Information (Second Echelon)

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.

$$\text{Specific number of equipments supported} \times \frac{\text{allowance factor}}{100} = \text{Number of parts authorized.}$$

b. Fractional values obtained from above computation will be rounded to whole numbers as follows:

(1) When the total number of parts authorized is less than one, the quantity authorized will be one.

(2) For all values above one, fractional values below 0.5 will revert to the next lower number, fractional values of 0.5 or larger will advance to the next higher whole number.

c. The number of parts authorized, determined after application of *a* and *b* above, represent one prescribed load for a 15-day period. The items and computed quantities thereof must be on hand or on order at all times.

d. Major commanders will determine the number of prescribed loads second echelon units and organizations will carry. Unit and organizations authorized additional prescribed loads will utilize the formula explained in *a* above but will multiply the number of equipments supported by the number of authorized prescribed loads before completing the formula. Fractional values will be rounded to whole numbers as described above.

5. Requisitioning Information (Third Echelon)

a. The allowance factors are based on 100 equipments. In order to determine the number of parts authorized for initial stockage for the specific number of equipments supported, the following formula will be used and carried out to two decimal places.

$$\text{Specific number of equipments supported} \times \frac{\text{allowance factor}}{100} = \text{Number of parts authorized for initial stockage.}$$

b. Fractional values obtained from above computation will be rounded to whole numbers as follows:

(1) When the total number of parts authorized is less than 0.5, the quantity authorized will be zero.

(2) When the total number of parts authorized is between 0.5 and 1.0, the quantity authorized will be one.

(3) For all values above one, fractional values below 0.5 will revert to the next lower whole number and fractional value 0.5 and above will advance to the next higher whole number.

c. The quantities determined in accordance with the above computation represent the initial stockage for a 15-day period.

6. Comments or Suggestions

Any comments concerning omissions and discrepancies in this manual will be prepared on DA Form 2028 and forwarded direct to Commanding Officer, U. S. Army Electronics Materiel Support Agency, ATTN: SELMS-ML, Fort Monmouth, N. J.

SECTION II FIRST ECHELON FUNCTIONAL PARTS LIST

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE	(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY AUTHORIZED	(8) ILLUSTRATIONS FIGURE NO	(9) ILLUSTRATIONS ITEM NO
	5965-243-7782		HEADSET, ELECTRICAL H-16/U: magnetic; 800 ohm impedance; 2 rec 0.824 in dia x 0.594 in d; flat steel double adj headband; incl ear inserts;					
			ITEMS COMPRISING AN OPERABLE EQUIPMENT					
			HEADSET, ELECTRICAL H-16/U: (BASIC COMPONENT)		NX	1		
	Ord thru AGC		TECHNICAL MANUAL TM 11-5965-267-15P			1		
	Ord thru AGC		TECHNICAL BULLETIN TB-SIG-109			1		
			RUNNING SPARE ITEMS					
	5965-387-6880		GROMMET: neoprene; used as ear insert; 25/32 in lg x 25/32 in dia w/15/64 in hole in ctr; Sig dwg SC-D-14623-7			8		

SECTION III SECOND ECHELON FUNCTIONAL PARTS LIST

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE	(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY INCORPORATED IN UNIT	(8) ORGANIZATIONAL 15 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS 2ND	(9) ILLUSTRATIONS FIGURE NO	(10) ILLUSTRATIONS ITEM NO
			HEADSET, ELECTRICAL, H-16/U						
	5965-243-7782		HEADSET, ELECTRICAL H-16/U: magnetic; 600 ohm impedance; 2 rec 0.824 in dia x 0.594 in d; flat steel double adj headboard; incl ear inserts		NX				
	5965-537-3801		CUSHION: for RH earcup; molded olive drab neoprene; approx 3-1/2 in lg x 2-5/8 in x 5/8 in thk e/a; Sig dwg SC-D-14622-6			1	*		
	5965-537-3802		CUSHION: for LH earcup; molded olive drab neoprene; approx 3-1/2 in lg x 2-5/8 in wd x 5/8 in thk e/a; Sig dwg SC-D-14622-5			1	*		
	5965-387-6880		GROMMET: neoprene; used as ear insert; Sig dwg SC-D-14623-7			2	2.3		

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE				(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY INCORPORATED IN UNIT	(8) FIELD 15 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPS		(10) DEPOT QUANTITY REQUIRED FOR REBUILD OF 100 EQUIPS	(11) ILLUSTRATIONS FIGURE NO	(12) ILLUSTRATIONS ITEM NO
										3RD	4TH	5TH		
A	B	C	D			HEADSET, ELECTRICAL, H-16/U								
				5965-243-7782		HEADSET, ELECTRICAL H-16/U: magnetic; 600 ohm impedance; 2 rec 0.824 in dia x 0.594 in d; flat steel double adj headband; incl ear inserts		NX						
	F	F		5340-537-8798		CLAMP, ELECTRICAL: earcup clamp; Sig dwg SC-D-14619-2			1	0.2				
	F	O		5965-537-3801		CUSHION: f/RH earcup; Sig dwg SC-D-14622-6			1	0.3				
	F	O		5965-537-3802		CUSHION: f/LH earcup; Sig dwg SC-D-14622-5			1	0.3				
	F	F		5965-537-3803		EARCUP MX-239/U: RH, Sig dwg SC-D-14620			1	0.2				
	F	F		5965-537-3804		EARCUP MX-240/U: LH; Sig dwg SC-D-14620			1	0.2				
	F	F		5965-497-8820		GASKET: seals term block to earcup; Sig dwg SC-D-14633-6			2	0.3				
	F	F		5330-404-8912		GASKET: cover plate seal; irregular rounded triangular shape; Sig dwg SC-D-14623-14			2	0.3				
	F	O		5965-387-6880		GROMMET: used as ear insert; neoprene; Sig dwg SC-D-14623-7			2	0.6				
	F	F		5965-642-8611		HEADBAND MX-175/U: Sig dwg SC-D-14628			1	0.2				
	F	F		5965-669-8940		RECEIVER SUB ASSEMBLY: LH; Sig dwg SC-D-14632			1	0.2				
	F	F		5965-669-9020		RECEIVER SUB ASSEMBLY: RH; Sig dwg SC-D-14632			1	0.2				
	F	F		5305-498-8638		SCREW, SET: mts earcup to headband; 6-40 NF 3/16 in lg; Sig dwg SC-D-14619-3			4	0.6				
	F	F		5965-049-7648		SPRING: flat type earcup positioning; Sig dwg SC-D-14623-9			2	0.3				

SECTION V

MAINTENANCE ALLOCATION

7. General

This section assigns maintenance functions to be performed on components, assemblies, and subassemblies by the lowest appropriate maintenance echelon.

8. Columns

a. Columns in the maintenance allocation chart are as follows:

(1) *Part or component.* This column shows only the nomenclature or standard item name. Additional descriptive data are included only where clarification is necessary to identify the component. Components, assemblies, and subassemblies are listed in top-down order. That is, the assemblies which are part of a component are listed immediately below that component, and the subassemblies which are part of an assembly are listed immediately below that assembly. Each generation breakdown (components, assemblies, or subassemblies) is listed in disassembly order or alphabetical order.

(2) *Maintenance function.* This column indicates the various maintenance functions allocated to the echelons.

(a) Service. To clean, to preserve, and to replenish lubricants.

(b) Adjust. To regulate periodically to prevent malfunction.

(c) Inspect. To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.

(d) Test. To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.

(e) Replace. To substitute serviceable components, assemblies, or subassemblies, for unserviceable components, assemblies, or subassemblies.

(f) Repair. To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This function includes but is not limited to welding, grinding, riveting, straightening, and replacement of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

(g) Align. To adjust two or more components of an electrical system so that their functions are properly synchronized.

(h) Calibrate. To determine, check, or rectify the graduation of an instrument, weapon, or weapons system, or components of a weapons system.

(i) Overhaul. To restore an item to *completely serviceable* condition as prescribed by serviceability standards developed and published by heads of technical services. This is accomplished through employment of the technique of "Inspect and Repair Only as Necessary" (IROAN). Maximum utilization of diagnostic and test equipment is combined with minimum disassembly of the item during the overhaul process.

(j) Rebuild. To restore an item to a standard as near as possible to original or new condition in appearance performance, and life expectancy. This is accomplished through the maintenance technique of complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements using original manufacturing tolerances and/or specifications and subsequent reassembly of the item.

(3) *1st, 2d, 3d, 4th, 5th echelons.* The symbol X indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Echelons higher than the eche-

lon marked by X are authorized to perform the indicated operation.

(4) *Tools required.* This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment referenced. The grouping of codes in this column of the maintenance allocation chart indicates the tool, test, and maintenance equipment required to perform the maintenance function.

(5) *Remarks.* Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding columns.

b. Columns in the allocation of tools for maintenance functions are as follows:

(1) *Tools required for maintenance functions.* This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

(2) *1st, 2d, 3d, 4th, 5th echelon.* The dagger (†) symbol indicates the echelons normally allocated the facility.

(3) *Tool code.* This column lists the tool code assigned.

SECTION VI MAINTENANCE ALLOCATION CHART

(1) PART OR COMPONENT	(2) MAINTENANCE FUNCTION	(3) 1ST ECH	(4) 2ND ECH	(5) 3RD ECH	(6) 4TH ECH	(7) 5TH ECH	(8) TOOLS REQUIRED	(9) REMARKS
HEADSET, ELECTRICAL H-16/U	service	X						
	inspect	X						
	test			X			1	Continuity
					X		2	Transmission Efficiency (see note)
	repair		X					Replace ear inserts and cushions
				X			3	All repairs

SECTION VII ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1) TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS	(2) 1ST ECH	(3) 2ND ECH	(4) 3RD ECH	(5) 4TH ECH	(6) 5TH ECH	(7) TOOL CODE	(8) REMARKS
H-16/U (Continued)							
MULTIMETER TS-352/U			†	†	†	1	Continuity
TEST SET AN/PTM-6				†	†	2	Transmission Efficiency
TOOL EQUIPMENT TE-49			†	†	†	3	
NOTE: TOOLS AND TEST EQUIPMENT SHOWN IN FOURTH AND FIFTH ECHELONS ARE TO BE USED WHEN EQUIPMENT IS RETURNED WITH END ITEM							

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Units org under fol TOE:
9-47 (2)
9-87 (2)
9-227 (2)
9-377 (2)
9-500 (AA-AC) (2)
11-5 (2)
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NG: State AG (3); Units—Same as Active Army except allowance is one copy to each unit.

USAR: None.

For explanation of abbreviations used, see AR 320-50.

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